EXHIBIT A

Filed: December 4, 2001 Express Mail: EL603009481US

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The Patent and Trademark Office stamping sets forth and receipt date (or both the receipt date and the Serial Number) of a continuation patent application identified as follows:

APPLICANT: Danishefsky, et al.

TITLE:

Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses

Thereof

Application Comprising: $\underline{112}$ pages (including $\underline{87}$ pages of description, $\underline{24}$ pages of claims, and $\underline{1}$ page of Abstract); and 59 sheets of drawings;

Using: Utility Patent Application Transmittal (5 pp.);
Fee Transmittal (1 pg., 2 copies); Preliminary Amendment (11 pp.);
Identification of Patent Under 37 CFR §1.607(c) (1 pg.); Statement Filed Pursuant to Duty of Disclosure Under 37 CFR §§1.56, 1.97 and 1.98 (3 pp.); Form PTO-1449
Information Disclosure Statement (3 pp.); Copy of Executed and Recorded
Assignments (12 pp. total); Copy of Notice Regarding Power of Attorney (1 pg.);
Copy of Executed Declaration Claiming Small Entity Status –Nonprofit
Organization (2 pp.); Copy of Executed Declarations (8 pp. total);
Drawings (26 Sheets): Return Postcard.

Check in the amount of \$370.00 for Basic Filing Fee (Small Entity)

Authorization to charge additional fees to Deposit Account No. 03-1721

Attorney: KKS 3341830_1.DOC

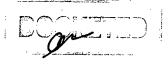
Case No. 2003080-0071 (SK-744-CON4)

10/004571 12/04/01

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APPLICATION NUMBER

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FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

08/986,025

12/03/1997

SAMUEL J. DANISHEFSKY

1078/1C598US

2003080 -0037

KAROLINE K. M. SHAIR CHOATE, HALL & STEWART EXCHANGE PLACE, 53 STATE STREET BOSTON, MA 02109

Date Mailed: 04/17/2000

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/27/2000.

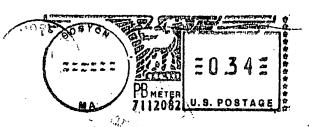
The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

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Manakia Minakia di Kabibali

 $R = CH_2OTBS$ (CH_2)₃OTBDPS

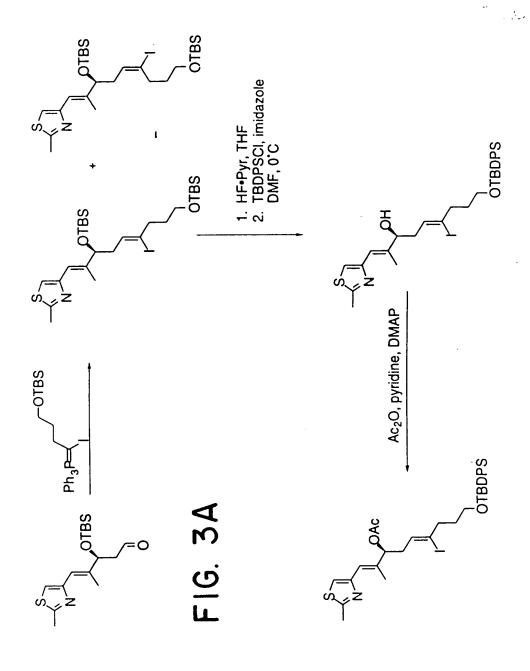
ρAc

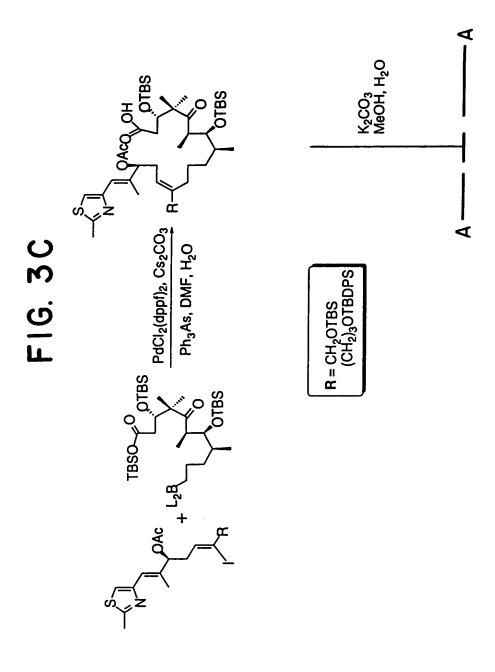
$$R = CH_2OH$$

(CH₂)₃OH

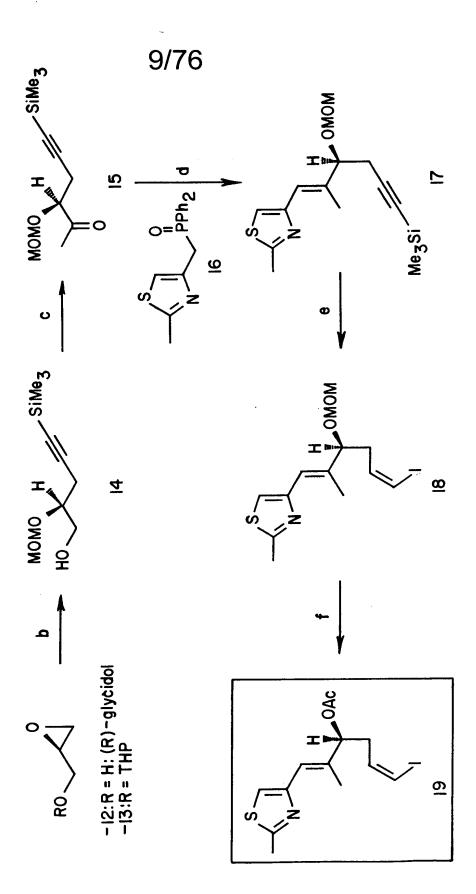
$$R = CH_2OH$$

(CH_2)₃OH





F16. 3E

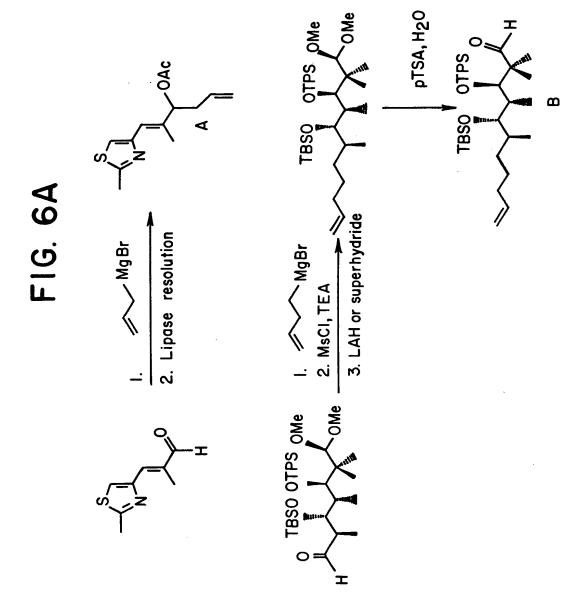


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ac GC

95%

Ac₂O, Et₃N, DMAP, CH2Cl2



OTBS OTBS Ru or Mo catalyst "olefin metathesis" FIG. 6B LDA, THF, -78°C A+B

cis epoxide (epothilone A)

trans epoxide (epothilone analog)

*17 steps from known starting materials vs.27 steps for aldol macrocyclization

FIG. 10

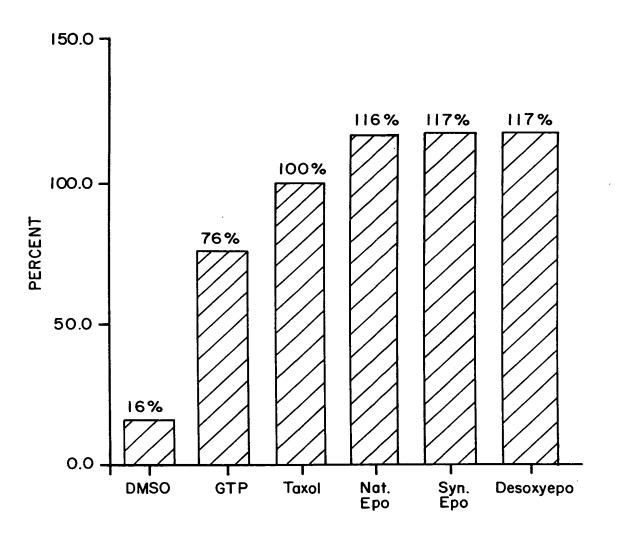
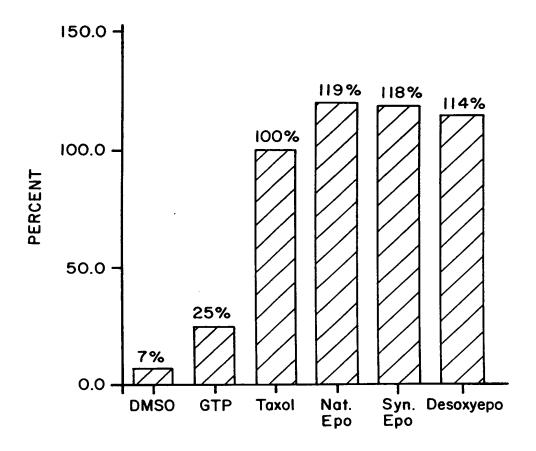
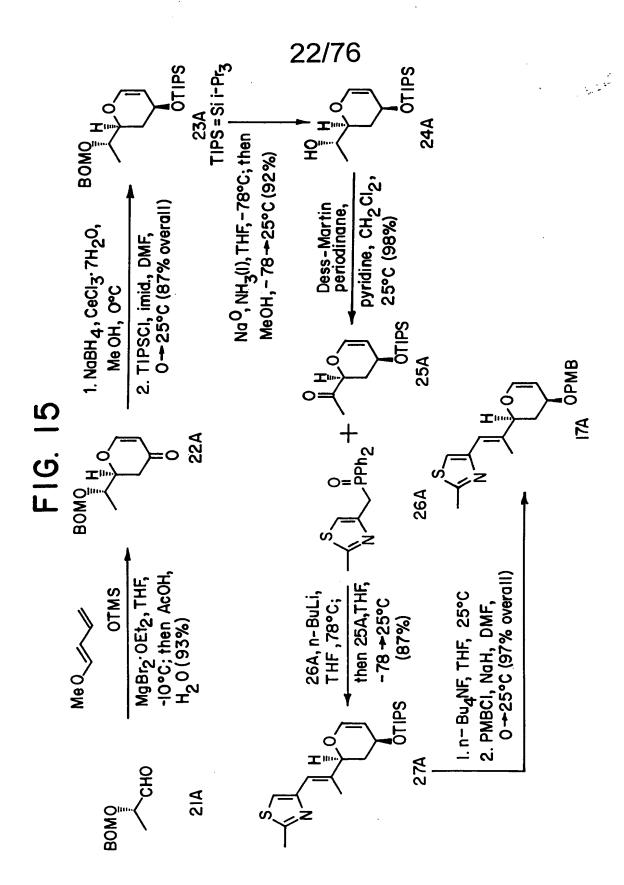


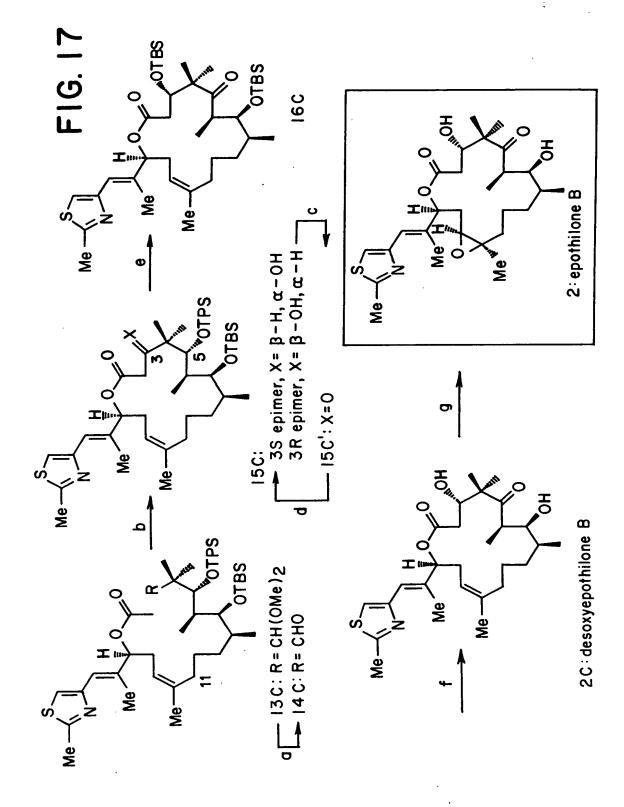
FIG. 11



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70

8D

-- 9D#R=t-butyl

FIG. 21

F16. 22 A

FIG. 22 B

유 **6** TEA, 4-DMAP, C6H6 FIG. 24A FIG. 24B MeOH/H₂O 88% minor product from suzuki coupling reaction HF-pyridine, THF 95%

F16. 25A

1. OsO4, NMO acetone, H₂O, 80%

2. Pb(OAc)4, 70%

87% ee

FIG. 25B

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FIG. 28A

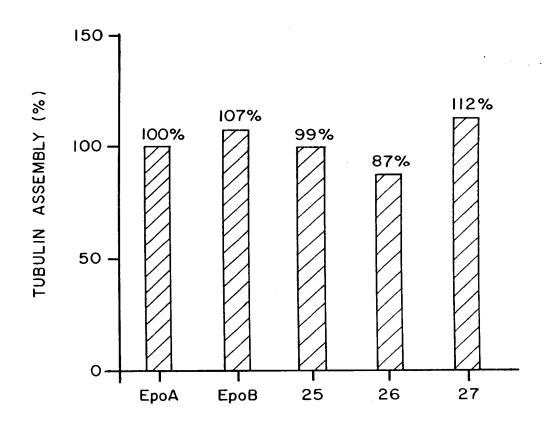
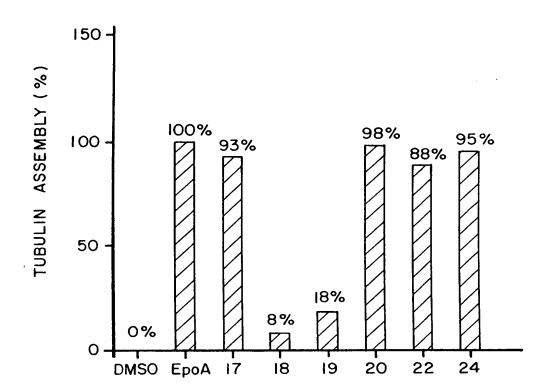
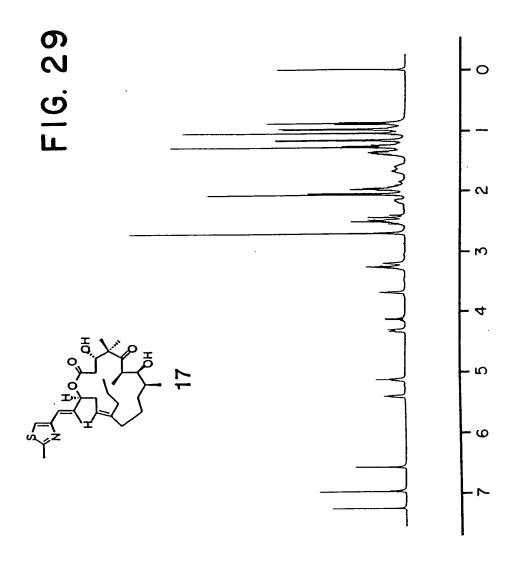
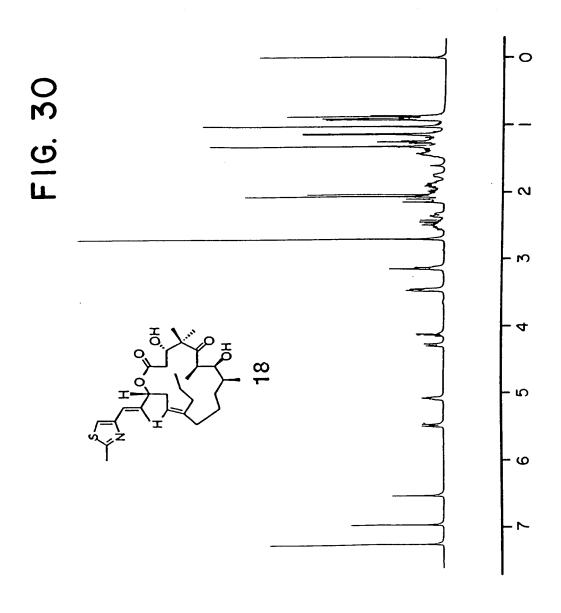
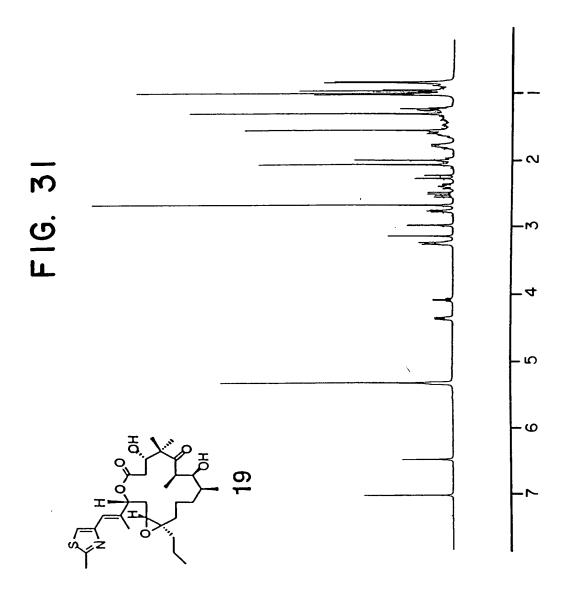


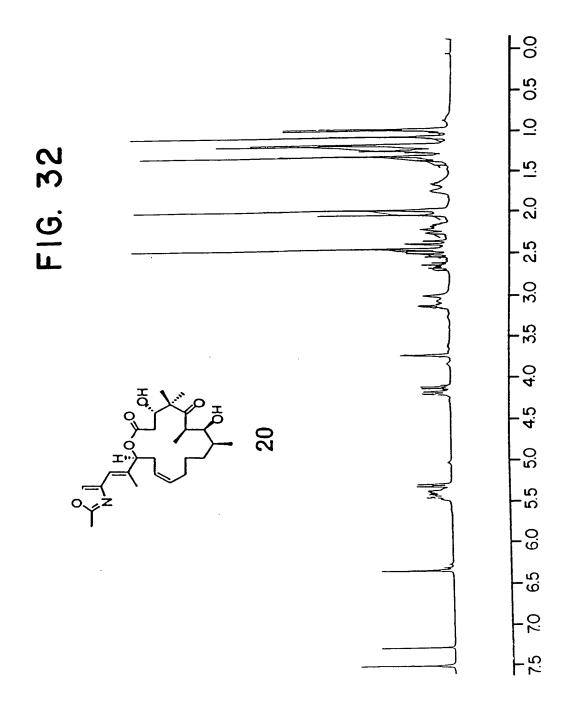
FIG. 28B

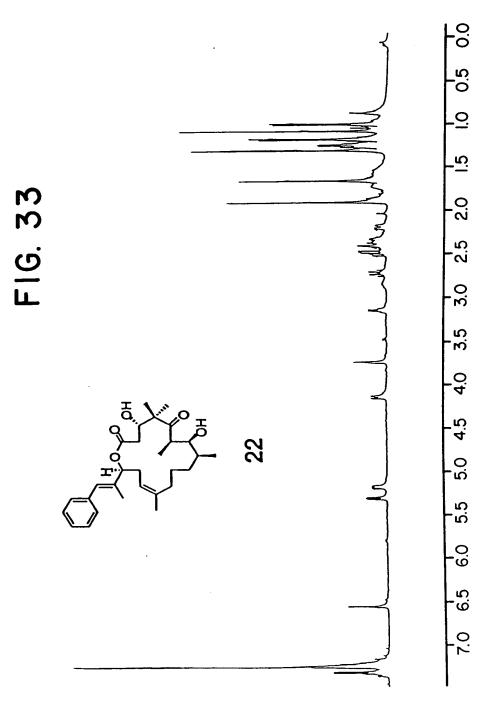


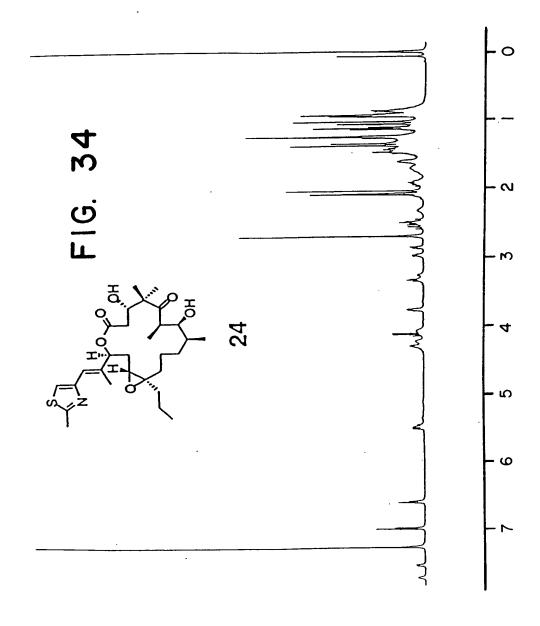


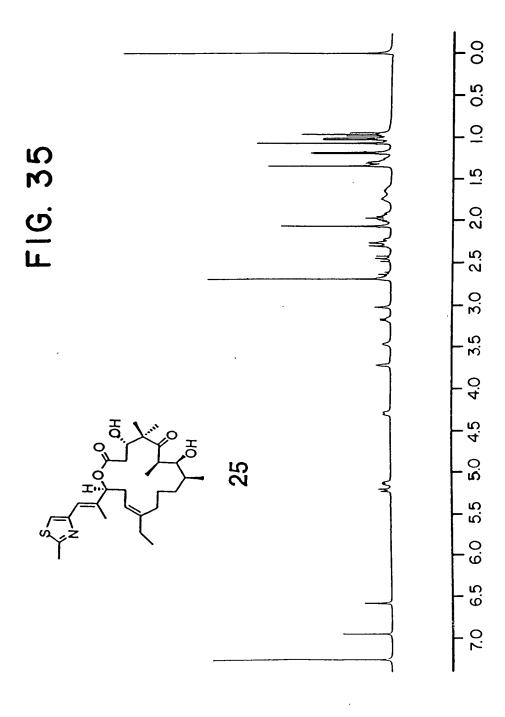


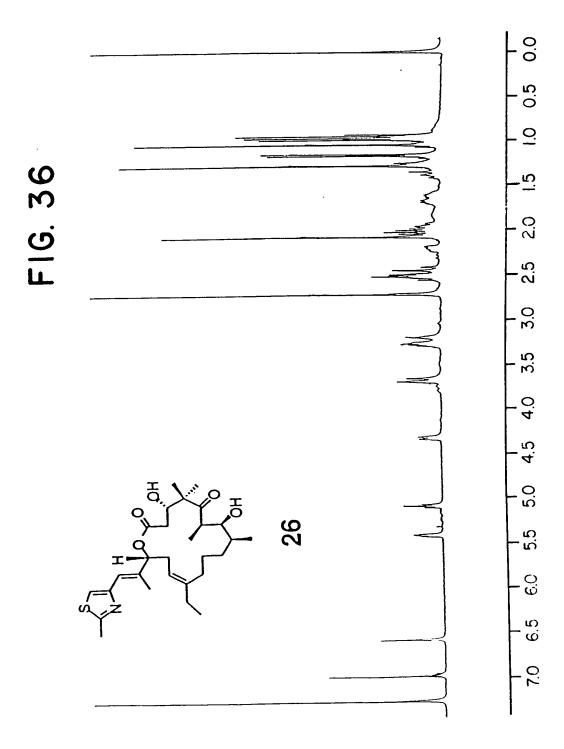


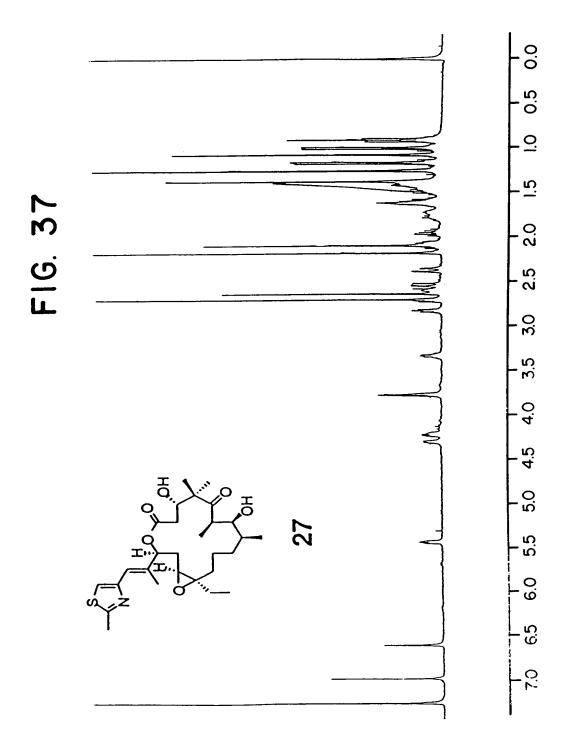


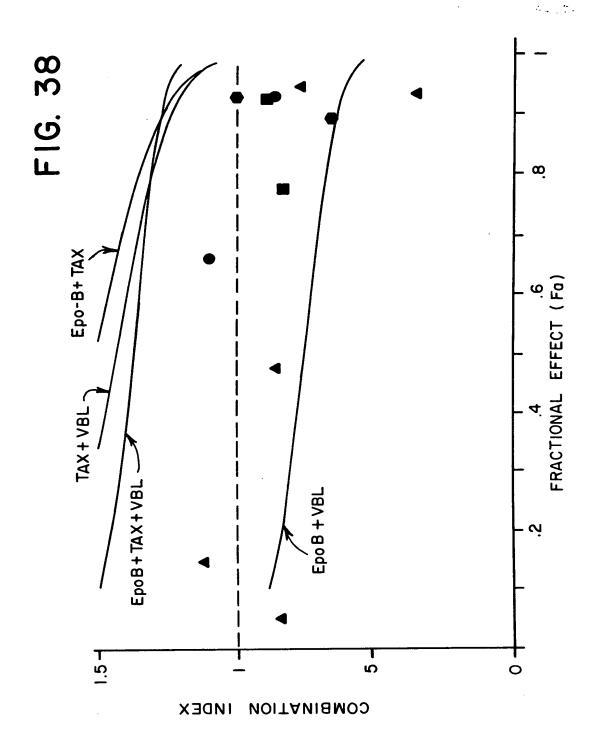












epothilone A (0.0027) [0.020]

FIG. 40A desoxyepothilone B 10 (0.0095) [0.017] synthetic epothilone B

(0.00044)
[0.0026]

FIG. 41A

FIG. 43A

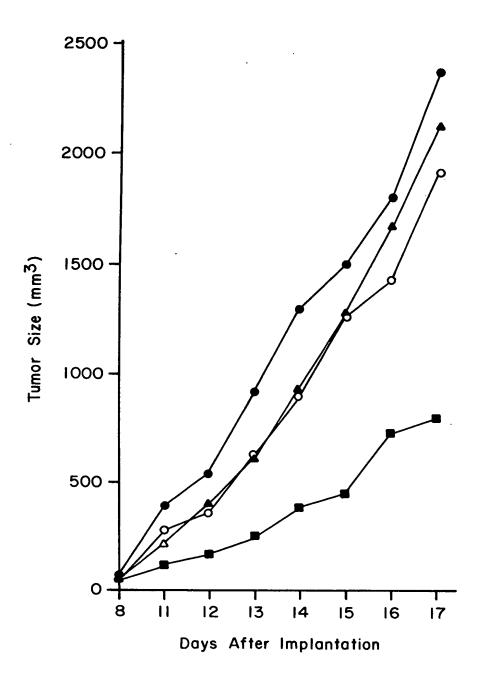
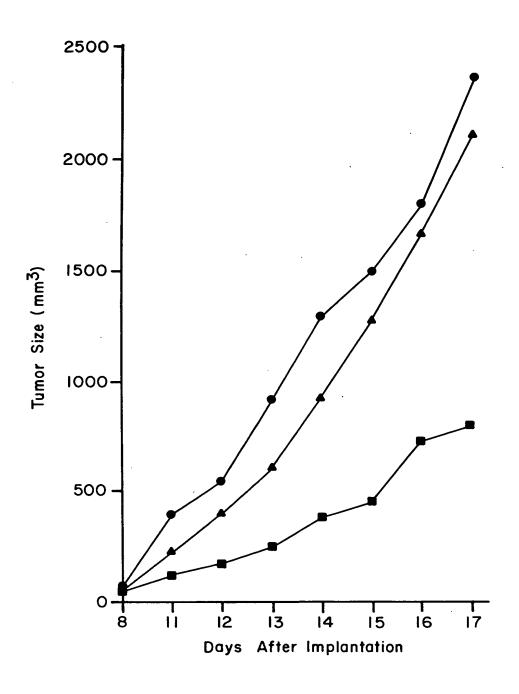
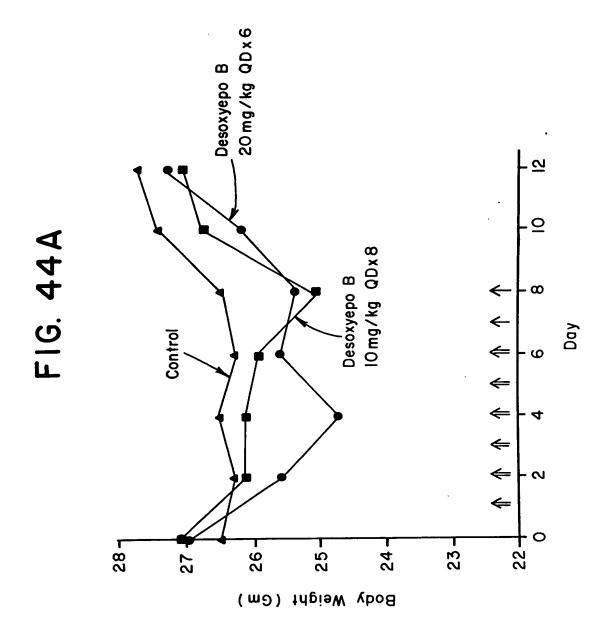


FIG. 43B





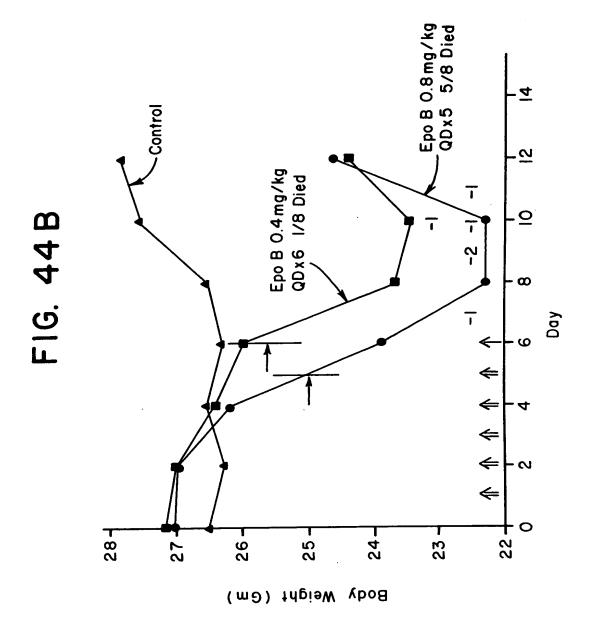
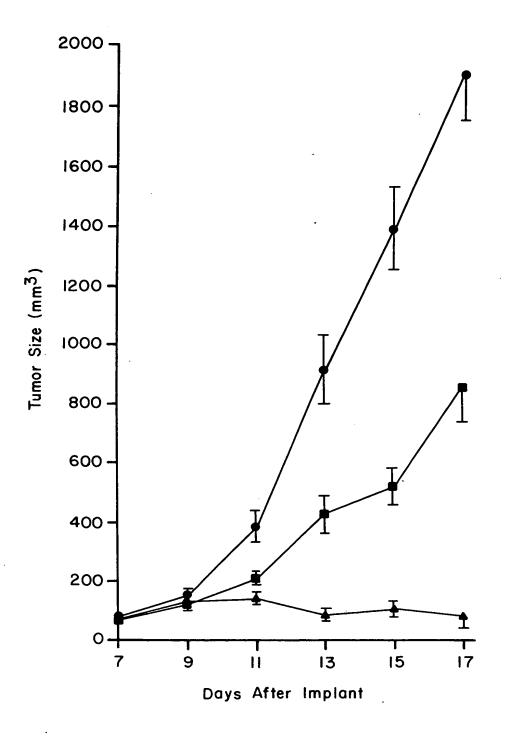


FIG. 45A



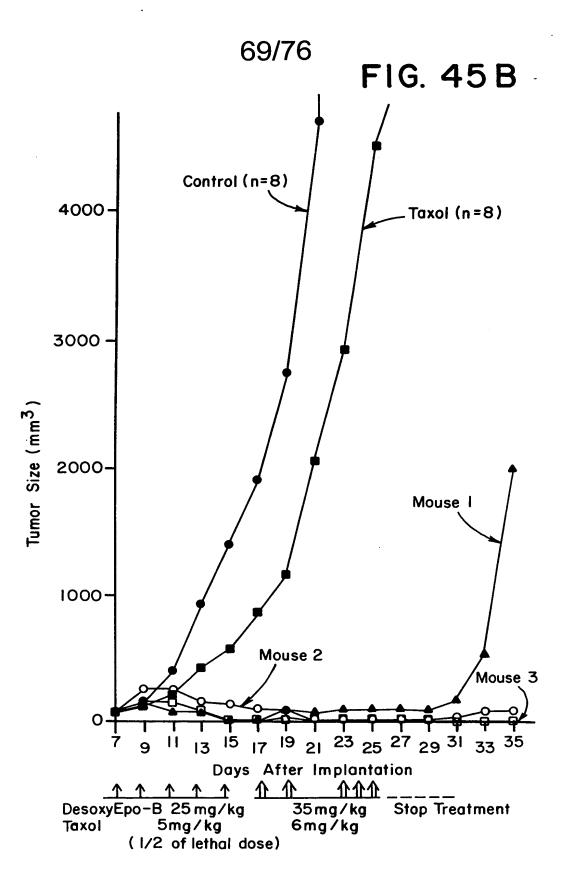


FIG. 46

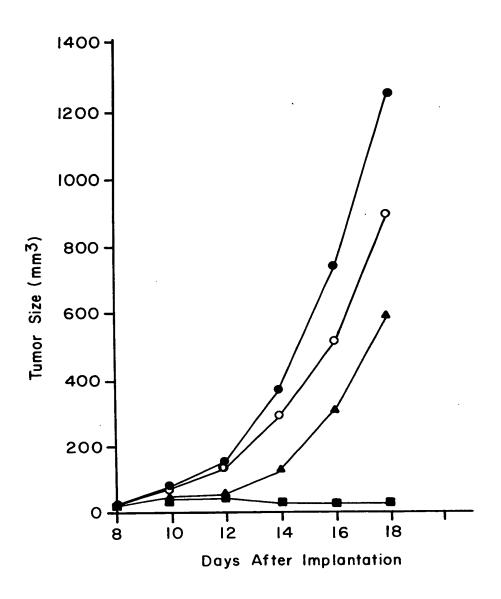


FIG. 47

